SleepCare™ Sleep Screener

User Manual

CE 0123

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Device

Warnings, Cautions, and Contraindications

Warnings

A warning indicates the possibility of injury to you or the operator of this device

This manual serves as a reference.

Read and understand the entire manual before using the device.

Discontinue use if skin reddening or inflammation appears.

Do not smoke while wearing the BMC SleepCare.

Do not use USB data cable for communication to PC while the device is recording.

Cautions

A caution indicates the possibility of damage to the device.

This device is to be sold by or on the order of a physician.

Avoid exposure to sources of direct airflow such as fans during recording.

Avoid using this device in an MRI environment or in close proximity to a high EMI emission source.

Do not attempt to take the main device apart. No user-serviceable parts are inside.

Do not immerse the main device in water.

If you notice any unexplained changes in the performance of this device, if the device is dropped or mishandled, if water is spilled into the enclosure, or if the enclosure is broken, discontinue use and contact BMC.

Contraindications

Depending on your skin condition or general state of health, you may experience sensitivity to the wrist belt or the self-adhesive finger sensor. Discontinue use if you experience a reaction to the skin-contact materials.

Intended Use

The SleepCare device is indicated for the screening of sleep disordered breathing. It records the following data: patient respiratory oral and nasal airflow, snoring, blood oxygen saturation, pulse and CPAP pressure. The device uses these recordings to generate a report for screening or for further clinical investigation.

System Contents

1 User manual
1 SleepCare main device
1 USB data cable
1 Pulse oximeter sensor
1 Oral and nasal airflow unit (optional)
1 Cannula （optional）
1 CD

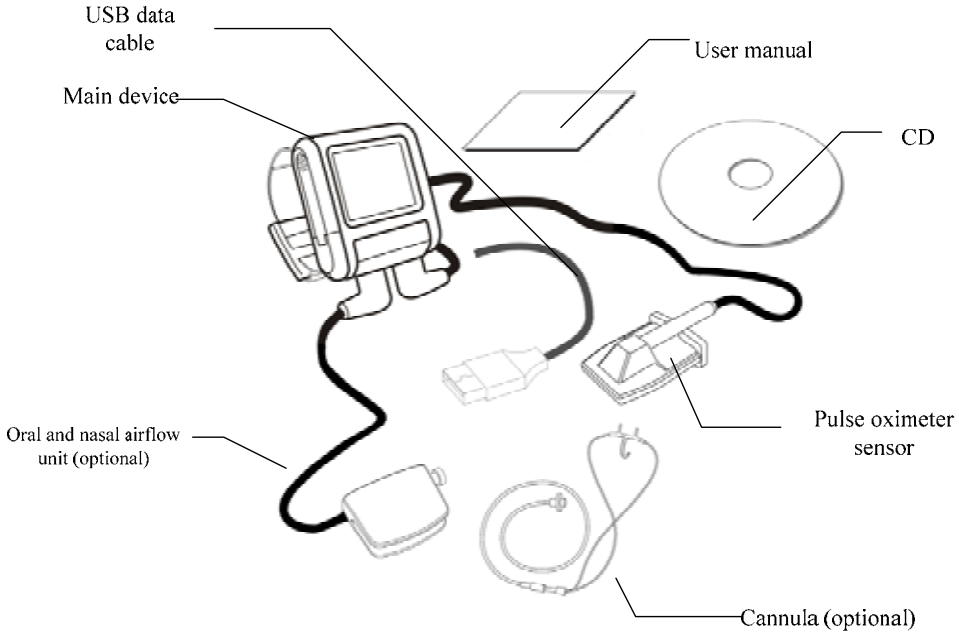
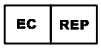


Figure 1-1 System Contents

Several accessories are available for using the SleepCare. To ensure that you experience a safe and effective use, adopt only BMC accessories.

Symbols

These symbols are used on the SleepCare devices.

	Type B Applied part
	Attention, Consult Accompanying Documents
IPX0	**IPX0 Ordinary Protection**
SN	**Serial Number of the product**
	Date of Manufacture
	Manufacturer
	**Authorised Reprisentative in the European Community**
	European CE Declaration of Conformity

SleepCare Display

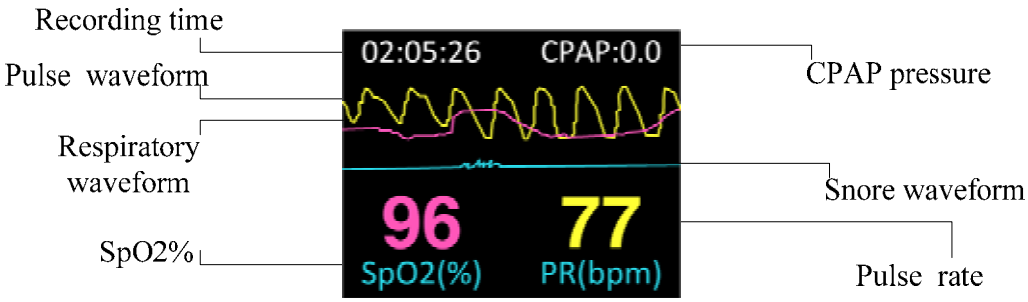


Figure 1-2 SleepCare Display

- **%SpO2 Display**

Display the value of percent oxygen saturation.

- **Pulse Rate Display**

Display the pulse rate in beats per minute.

- **Recording Time**

Show the length of recording time

- **CPAP Pressure**

Display the direct component of airflow pressure.

- **Pulse Waveform**

The yellow line depicting the artery pulse feature

- **Snore Waveform**

The green line indicating the occurrence of a snore

- **Respiratory Waveform**

The red line reflecting user's respiration fluctuation

Instructions for Use

Fitting

1. Remove the SleepCare main device, oral and nasal airflow unit, pulse oximeter sensor and the two batteries from the package.
2. Open the battery door at the left side of the device. Insert two new AAA batteries following the polarity markings indicated on the battery door. Carefully position the battery door and gently get it into place.
3. Fit the oral and nasal pressure cannula so that the two small open tubes point towards your nostrils while the third open tube pointing towards your mouth.
4. Fit the loop round your ears and then back around your neck, avoiding pulling it over your head.

Figure 1-3 Illustration of Wearing the Cannula

5. Move the slide towards your chin, until the cannula feels secure under your nose.
6. Fit the farther end of the cannula into the tubing end of the oral and nasal airflow unit and insert its data cable into the left port at the main device bottom, where the recorded data could be downloaded by a computer.
7. Put the oximeter data cable plug into the right socket at the device bottom.
8. Insert your index finger into the pulse oximeter sensor. The finger must reach the end of the sensor.

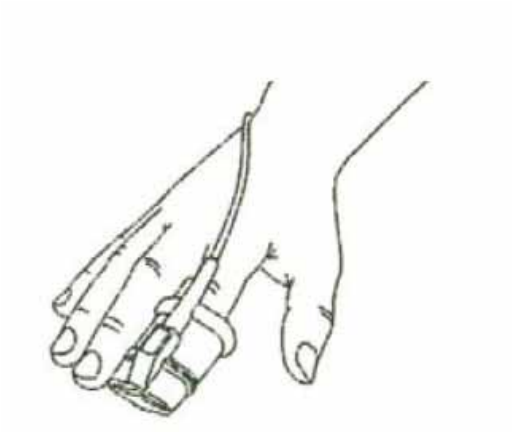


Figure 1-4 Illustration of Wearing the Pulse Oximeter Sensor

9. Wear your SleepCare main device around your wrist just like wearing a watch. Adjust it for a comfortable position and fasten the belt to make it fixed.

Figure 1-5 Illustration of Wearing the Main Device

Recording

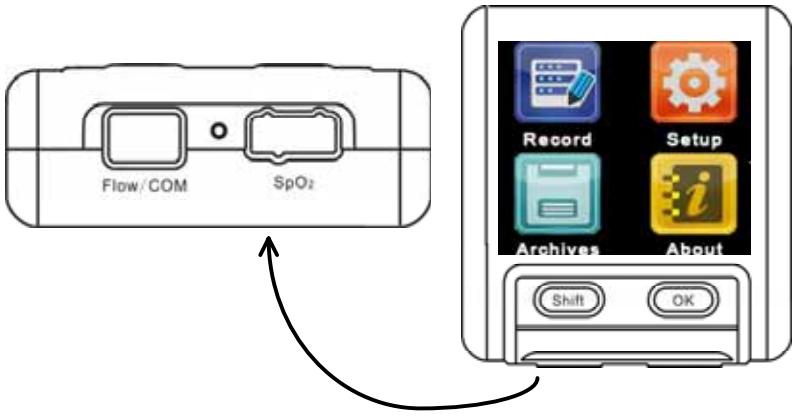


Figure 1-6 Main Device

1. Start the device by pressing and holding **OK** button, the four icons, **Record**, **Setup**, **Archives**, and **About**, are showing in the display.
2. Navigating the icons via **Shift** button and select the intended function by pressing **OK** button.
3. **Setup** allows changing some of the recording parameters. For example, you can choose whether or not save flow data, whether or not save snore data, and whether or not need an auto save. You can also set an appropriate time span for Backlight Time. The default value is 30s. The exit icon makes you quit the current page and return to the previous one.
4. **Record**. When this icon is selected, the device enters the recording page.
5. **Archives**. This icon offers information on serial number and recording time. The device allows a maximum volume of 32 pieces of entries or 29 hours of accumulated time, though only the latest 8 pieces of data files can be seen through this interface. Check it when you transfer the recorded data to the computer. If new data are recorded while the storage is full, the most beginning one of the recorded data files will be overwritten. Press any key to quit.
6. **About**. This icon gives information regarding the product version. Press any key to quit.
7. The device automatically turns off in one minute if no action is taken in this page.
8. While recording, the OLED colorful display will be off after a set time since the last keystroke and it can be activated again by another hit on the key.
9. Follow the direction of the 4th step to enter the recording page, then press and hold **OK** button to start recording. The timer in the up left corner begins to run. Keep the device on and go to sleep.
10. Press and hold both **Shift** and **OK** buttons at the same time to quit record process.
11. Press and hold **OK** button to turn off the device.
12. The recorded data can be uploaded to a computer by **USB** communication port, refer to the part of Analysis System in this manual.

Disassembly

1. Lower the slide from under your chin and take off the cannula. Take off the pulse oximeter sensor. Unplug the data cables from your SleepCare main device.
2. Put the cannula off your oral and nasal airflow unit and keep it for future personal use according to your medical provider's instructions.
3. Remove the batteries and discard according to local regulations.
4. Keep your SleepCare main device and the accessories appropriately under the instructions of medical provider.

Important Steps for Use

It is of essential importance to have the OLED display screen checked to ensure an effective and correct recording before sleeping.
The red line indicating respiratory waveform must be fluctuating with your breath rhythm, while the yellow line which corresponds to your pulse fluctuation should also change itself thereupon. You can also check the SpO2 and PR (Pulse Rate) by commonsense to see whether the pulse oximeter sensor is in good position for operation.

Troubleshooting

Symptoms	Possible Cause	Possible Solution
OLED display blinking	Batteries are low.	Replace batteries immediately.
SleepCare will not activate.	Batteries incorrectly inserted.	Check batteries.
	Depleted batteries.	Replace batteries.
The red line keeps straight without fluctuation.	The cannula is not properly positioned or is not connected to the main device, or is pinched.	Adjust the cannula and make sure it is connected firmly to the main device, or contact your medical provider for a change.
The yellow line does not move.	The pulse oximeter sensor may not in the correct position.	Adjust the pulse oximeter sensor.

Specifications

1. Oxygen Saturation Range 0 to 100%
2. Pulse Rate Range 40-240 bpm
3. Oral and Nasal 10/minute~40/minute

Airflow Rate Range

4. Wavelengths
   a) Red: 660 nanometers @ 3mw nominal
   b) Infrared: 905 nanometers @ 3mw nominal
5. Accuracy
   a) %SpO2 Accuracy 70 to 100% ±3%
   b) Rate Accuracy the larger of ±3% and 1bpm
6. Resolution
   a) SpO2 1%
   b) Pulse Rate 1bpm
7. Temperature
   a) operating 5℃～40℃
   b) storage/Transportation -20℃～+55℃
8. Humidity
   a) Operating 30% to 80% non-condensing
   b) storage/ transportation ≤93% non-condensing
9. Atmosphere Pressure
   a) Operating 860hPa~1060hPa
   b) Storage 500hPa~1060hPa
10. Power Requirements 2 AAA Batteries of 1.5 VDC
11. Batteries Life
   a) Operating approximately 18 hours of continuous operation
   b) Storage 9 months typical
12. Dimensions 62mm × 57mm× 21mm
13. Weight 70g (main device without batteries)
14. Classifications per IEC 60601-1

Type of Protection	Internally Powered (on battery power)
Degree of Protection	Type B-Applied Part
Degree of Protection Against Ingress of Water	IPX0 Ordinary Protection
Mode of Operation	Continuous

Cleaning

Caution:

• Never use abrasive agents, alcohol, chlorine-containing substances, acetone, or other solvents to clean the recorder.

• Do not immerse the recorder, the oral and nasal airflow unit, or the pulse oximeter sensor in fluids, and ensure that no fluids penetrate into the products.

• Do not attempt to disinfect or sterilize the recorder, since this could cause unseen damage to the inside of the unit.

1. Turn off the SleepCare.
2. Detach the oral and nasal airflow unit and the oral and nasal pressure cannula.
3. Detach the pulse oximeter sensor from the SleepCare main device.

4. Clean the following parts with a damp cloth and a mild liquid soap: oral and nasal airflow unit, pulse oximeter housing and pulse oximeter cable.
5. Leave the cleaned parts to dry.

Disinfection

Between patient uses, the SleepCare should be surface disinfected in accordance with established clinical practice.

Disposal

Dispose of the device in accordance with local regulations.

Analysis System

System requirements for running the software

1. hardware requirements: CPU≥P3 1.0G, memory≥512M, display resolution ≥1024×768， hard disk ≥80G
2. software platform: windows XP

Setup and registration

Setup of the software

a) Run the "SETUP.EXE" of SleepCare in the installation CD and enter the setup page
b) Click "Next" to enter the user information input page
c) Input user information and click "Next" to enter the installation directory page
d) User does not need to change the default directory of 'D:\ BMC_PSG', click 'Next' to enter the setup information verifying page.
e) Click 'Next' to make the software auto-install.
f) Click 'Finish' when the installation is done to quit. Double-click the new shortcut on desktop to launch the software.

Registration

a) Using the software for the first time requires a registration whose information could be found in a file named after the user in the installation disk.
b) Connect the SleepCare to the USB port of PC using a standard USB data cable.
c) Double-click the shortcut on desktop to enter the registration page (see Figure 2-1).

Figure 2-1 User Registration

d) Click “Connect”. The information of Sleep Holter ID appears in the relevant field automatically.

e) Enter serial number in the first blank field and registration code in the last and click “OK”. They can both be found in RegisterCode.txt in the disk.

Data reception

Data reception is to transmit the recorded data to computer. Software will analyze the data, and then the operator can edit the results of the analysis to generate analytical reports. Data receiving process is expressed as the following steps:

Start software

Firstly double-click shortcut of the software icon on the desktop, the system will enter the SleepCare system main window.

Connection of SleepCare and computer

In the power off status of the SleepCare, connect one end of the playback cable with the computer USB port, connect the other end to the SleepCare playback socket and then turn on the SleepCare.

Data transmission

a) When the recording is ended, transmit the data into computer. Computer software can analyze the data. Then the operator can edit the results of the analysis to generate analytical reports.

b) Run the software and choose the “File” from the main menu, select "New" to enter the communication interface. Select USB port and click “Connect”.

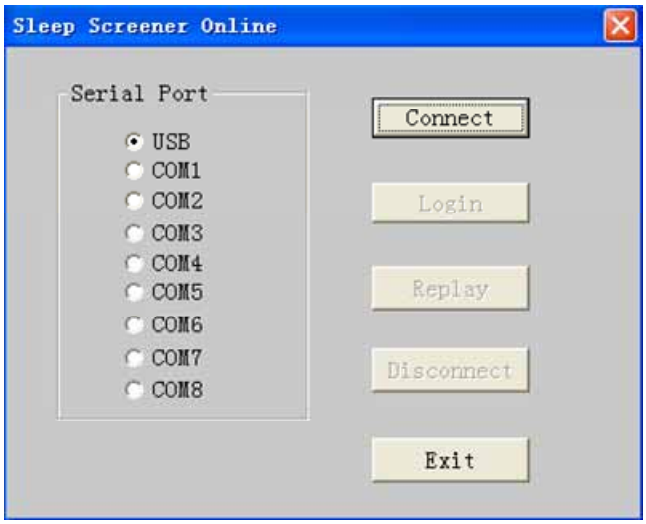


Figure 2-2 Sleep Screener Online

c) If connection succeeds, the "Connect" button will be grayed. And other originally grayed unavailable buttons will be available now. After online with the computer (see "connection of SleepCare and computer"), SleepCare will automatically enter the communication status.

After the success of online, click "Replay" button in “Sleep Screener Online” dialog box and the replay dialog box pops up (Figure 2-3).

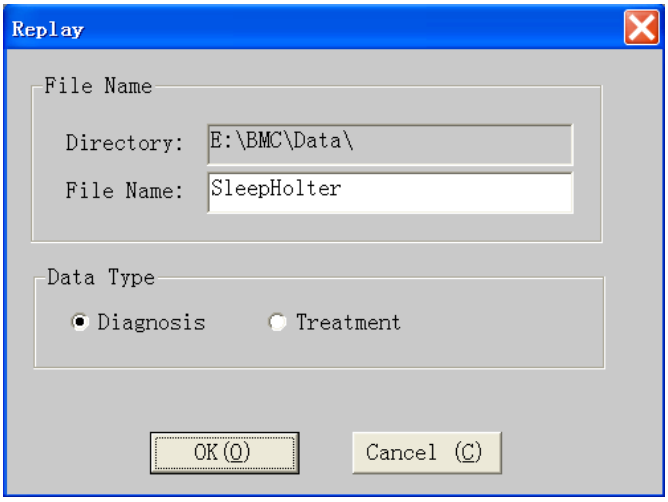


Figure 2-3 SleepCare Playback

d) The first content is data filename. The second is data type. Having the above two contents set up, click "OK" and the pop-up dialog box of patient information (Figure 2-4) is then shown on the display screen.

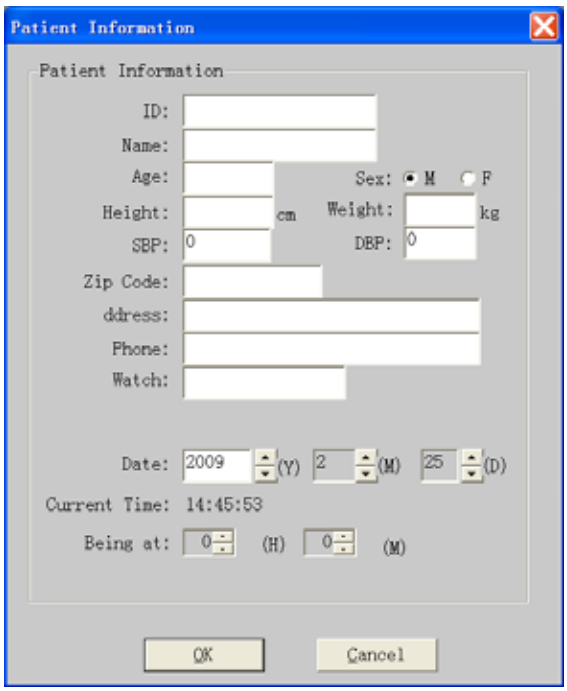


Figure 2-4 Patient Information Input

e) Recording start time is set by system at the beginning of the recording time which is confirmed by the internal clock. If the SleepCare clock is not correct, you can modify it in the above login screen. The recording end time defaults to 12 hours after the record start. In fact, in the process of data transmission, the system can automatically identify the actual end time of record. SleepCare will automatically stop after data transmission is finished. So need not to change the recording end time in normal situation.

f) Enter patient information one by one.

g) When the login information input is finished, select “OK”. Then computer begin to receive the recorded data. When data transfer is finished, the system returns to communications dialog box. At this time select "disconnect" or "return" in the dialog box, SleepCare will then automatically exit from the communications status.

h) If you want to connect another SleepCare with the computer, you can repeat the process of data reception. If you do not need to transmit data from other SleepCare, you can select "back" button in the communication to return to the main menu.

Data file management

a) In the main window of SleepCare system, choose “Open” in “File” of menu bar, the system will enter the sleep data management interface. The screen shows the saved data and its related information in the hard disk (Figure 2-5). The desired data can be easily found out by different ranging manners in this page. You can also verify the device’s storage capacity of 32 data files against the eight ones displayed on the SleepCare device.

b) First of all, find out the route and catalog of the sleep data, you can also make it by

using the **Browse** button. Then all the files are listed, with the information such as file name, patient name, serial number, recording date, record length, person on duty and data version etc. Click on the appropriate classification column according to which the files are ranged to alter the files' order.

c) In the lower right of the page are the function keys such as **Open**, **Backup**, **Delete**, and **Cancel**. With mouse clicking the file name, you can select the file, and then select the appropriate function key to achieve data playback, data backup and data deletion.

d) Selecting the cancel button in the lower right of the page can return to the main window of the SleepCare system.

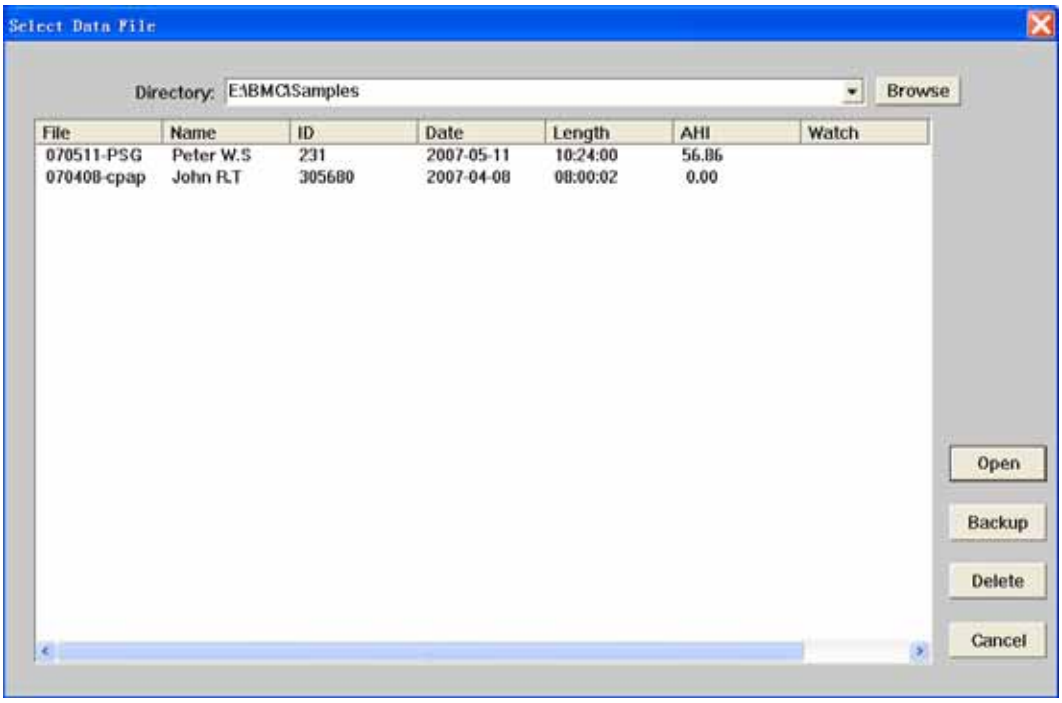


Figure 2-5 Select Data File Dialog Box

Data playback

Under the sleep data management page, select the sleep data file, system will enter the data playback interface.

If the data have not been analyzed yet, the prompt of auto analysis will be shown on the screen.

After opening the data file, system will enter the data playback window. There are the trend chart, the waveform, the diagnosis result, the analysis report and other pages.

Open and close the data file

a) Multiple data files can be opened simultaneously in the main window of the SleepCare

system. For the method to open the data files please see the data file management part.

b) Opening a file may be failed if the file is being used.

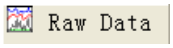
c) Select the intended file name in the **Window** menu to open the file.

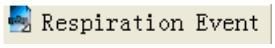
d) Clicking in the toolbar or select "**Close**" in the "**File**" option in the menu may close the current window of data file.

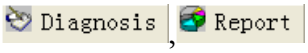
Display of recorded data and analysis result

The data recording, analysis result and statistical result are shown in 5 pages. It is in turn: The trend, the raw data, the respiration event, the diagnosis result, and the report. The report includes the concise report, the apnea analysis, the SpO2 analysis, and if the CPAP pressure is allowed, CPAP pressure report is also included.

The first chart displayed in the interface after the file is opened is the trend chart

and other pages 

, 

, 

can be shown via clicking the corresponding tabs above.

Trend chart

The trend chart demonstrates all the recorded parameters and analytical results during the entire recording time. By demonstrating multiple parameters, one may observe the different physiology parameters in the same period of time conveniently and may study the relationship between them easily.

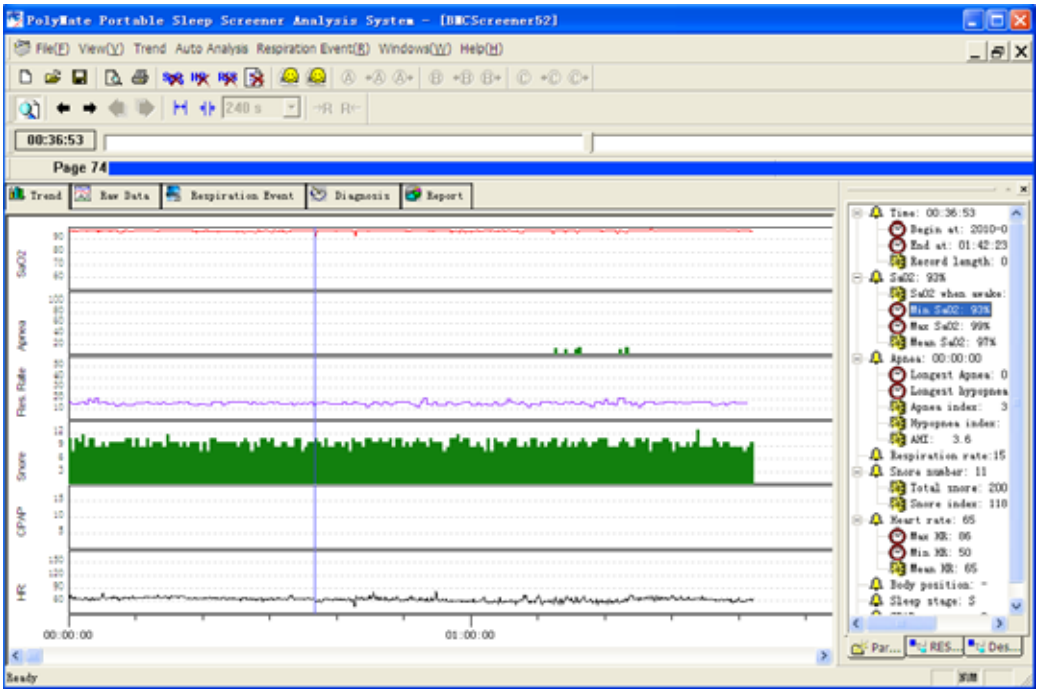


Figure 2-6 Trend chart

The basic functions on the page are:

①Parameter browse

②Parameter deletion

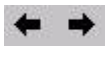
③Event location

④Print

⑤Analysis

All the operations may complete through the menu choosing. Regarding the commonly used operation, besides the provided menu operation, they may also be done by clicking on the toolbar buttons.

①Parameter browse

The two buttons in the toolbar may enlarge and reduce the time axis for glances over the record parameter according to the different time resolution of the tendency change. Clicking the two buttons  may make the cursor move forward and backward. The button may open or close the display-assistant window, which is able to show each kind of parameter value at the present time (where the cursor is). Clicks with a mouse throughout the trend chart can drive the cursor to anywhere in it.

At the lower part of the trend chart lays a slide scale which can be dragged left and right to change the cursor position.

The main part of the window shows the data analysis result trend chart. The items in a top-down order by default is, the saturation of blood oxygen trend chart, the apnea event length trend chart, the respiratory rate trend chart, the number of snoring trend chart, and the heart rate trend chart. The horizontal axis stands for the elapsing of time, with the time value marked above the horizontal axis.

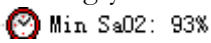
②Parameter deletion

Parameters that can be deleted in the trend chart include blood oxygen, heart rate and respiratory rate.

Using the in the toolbar may delete the invalid parameters.

If a certain part of the parameters during a period of time is to be deleted, left-click your mouse and drag it to select the intended part in the chart, click the corresponding item from Trend of the menu bar. You can also do it via the icons in the toolbar. If you just intent to delete some points in the chart, stay the cursor at the exact point and click the button directly to erase them.

③Event location

Click with your mouse to make the cursor stay anywhere you want it to be. Also, clicking on the " " icon in the parameter page of assistant window can bring you to the very moment when this event took place. For example, clicking the  item is able to point the cursor to the moment of the lowest value of oxygen saturation.

④Print

Use to print or print preview the charts or reports. The printing function also goes well in other pages.

⑤Analysis

If the data analysis work is not done when you open the file or some parameters are not correctly analyzed, and a second analysis is necessary after an adjustment to the data, you can select the corresponding options to perform the respiratory analysis and/or snoring analysis.

The toolbar has provided three commonly used analysis shortcuts. The buttons " " call the respiration event analytical process and the snoring analyzing process respectively.

Also, the analysis function works in other pages.

Raw Data

This page can show all the recorded signals both in waveform and in numeric value. By different walk speeds of paper, this system can display in the current time scope all the recorded features in this page such as the recorded waveforms, the record parameters as well as the corresponding analysis results and the events.

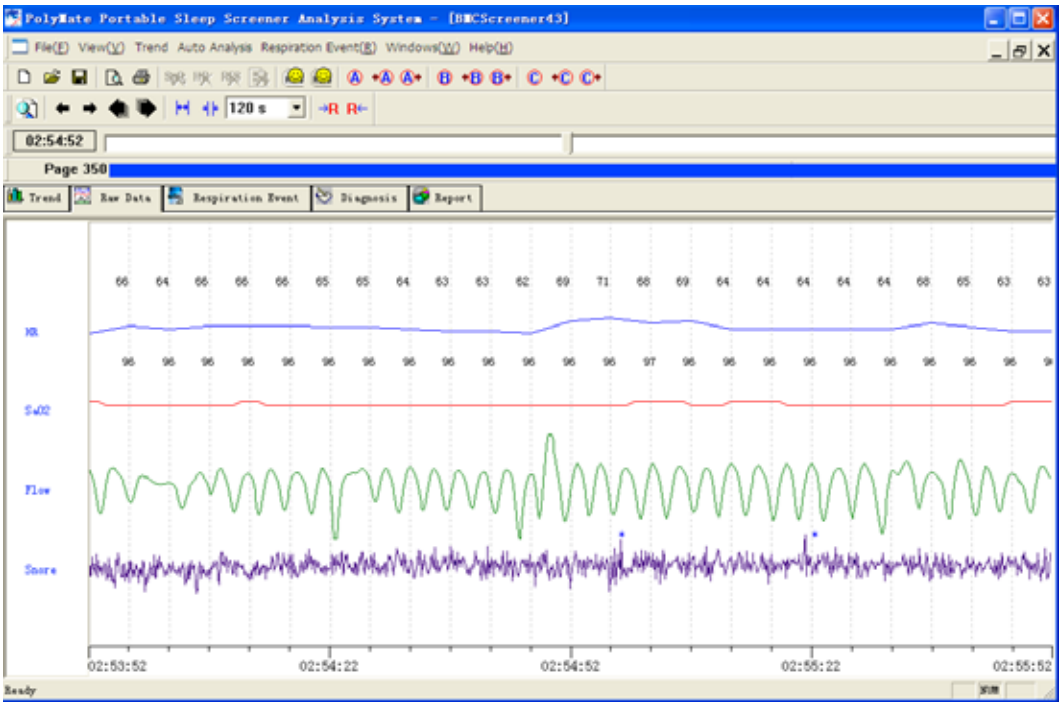


Figure 2-7 Waveform Display

The following operations may be carried out in this page.
Print
Modify display setup
Modify paper speed
Modify time display
Event browse
Event edit
Mark function

① Print

Select File(F) in the menu or in the toolbar to print the analysis report.

② Modify display setup

Move the cursor to a certain waveform and right-click with mouse to access the pop-up menu, select the correct item to change the gain and color of the waveform.

③ Modify paper speed

This function is aimed at conveniently observing the waveforms of different types.

The tool

in the toolbar can zoom in and zoom out the time scale to change the speed at which paper walks. The range is from 8s/page to 480 s/page.

④ Modify time display

This page provides many kinds of methods for the operator to locate any period of time conveniently to observe the waveform and its parameters.

The two buttons are used to slightly adjust the time back and forth as to when the waveform shall be displayed, with five seconds as a pace.

The two buttons are used for page turning with each page length depending on the present speed of paper's walking. For example, if the current displaying waveform walks at 1 minute/page, it shows the waveform of either previous or next one minute upon each clicking on the icons.

The bar

is a time vernier, which could be dragged back and forth or clicked on to show a waveform in varying time ranges.

Moving the mouse cursor to the left or right edges of the waveform where the cursor changes to an arrow, can make the waveform walking at the speed of 2 seconds /page automatically.

You can also locate the display contents in accordance with the markings you have made or the various events in your analysis. Refer to the event browse function and marking function in the following parts for details.

⑤Event browse

a） Breathing event

All the breathing events are lined out with a series of colorful blocks in the graph, with the serial number, the type and the length of each one annotated nearby. These breathing events are categorized into HYP and OSA, which means hypopnea and obstructive sleep apnea, respectively. And a previous event or next event can be easily located by clicking the

buttons.

b） Snore

The symbol "★" indicates a snore. In this operation, evaluations can be made to the sensitivity of snoring threshold and it can be adjusted by modifying the threshold of snoring identification and therefore changing the number of snores.

⑥ Event edit

The type and length of breathing events can be revised and every event can be inserted or deleted in this page.

For changing the breathing event type or deleting any event, right-click on the event and select the corresponding item to continue your action.

For changing the length of a breathing event, firstly point your mouse to the beginning or the end of the block of event, when the mouse arrow changes into a draggable state. Then drag the left or right edges to change the time of beginning and end.

For event insertion, left-click mouse and drag it to form rectangular block on the waveform, when a menu pops up, demonstrating the length of this block. Select a corresponding event type to generate such an event.

⑦Marking function

When the operator feels particularly interested in any recorded part and intends to relocate it on his next opening of the file, he may use this marking function, attaching different marks to different areas of interests.

Three symbols, A, B, and C are provided in this function. And the texts "+A", "+B" or "+C" are shown at the bottom of waveform.

The in the toolbar is used to make a mark or search for the previous or next mark. These markings can be kept while file-saving, thus can be relocated quickly upon later reopening.

Respiration event

This page has listed all respiration events and their correlations with the statistical data by form.

The respiration event list may sort according to different statistical items, with just clicking on the corresponding statistical tags. And the list will be shown in the intended manner.

Clicking on the list or using the ↑↓ key on keyboard may choose any event in the respiration event list. Click the corresponding button from the "Respiration Event" drop-down menu to change the type of an event. The displaying order of the list of events is not changed at the moment.

Above the respiration event list is the corresponding waveforms where all the respiration events are characterized by blocks of different color. Right-click on the event block, select the corresponding option to revise or delete an event. When the mouse arrow becomes draggalbe at the beginning or end of an event block, you can drag it back and forth to shorten or lengthen the time of the respiration event. Also, you can insert a respiration event by dragging a rectangular block in the waveform, and the list of

respiration events below will make a change to be ranged by serial numbers accordingly.

Change the displaying page to a previous or next one, or, magnify and minify the time axis of waveform by using the toolbar .

If the respiration event or the snore is to be analyzed for a second time, click

or

in the toolbar.

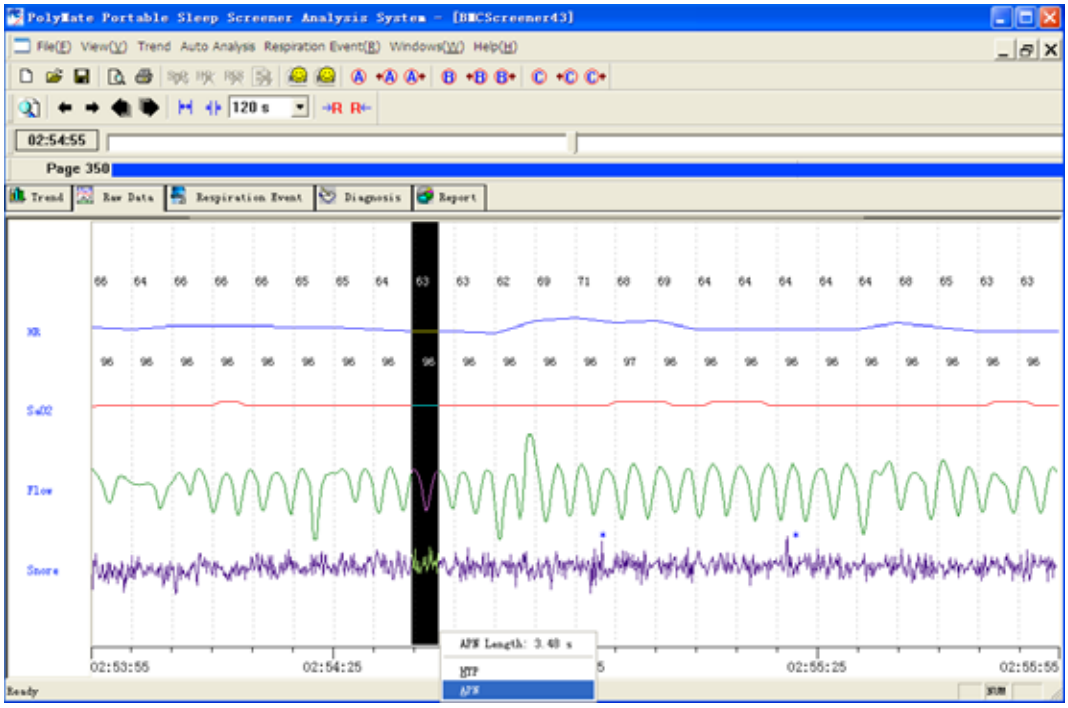


Figure 2-8 Respiration Event Edit

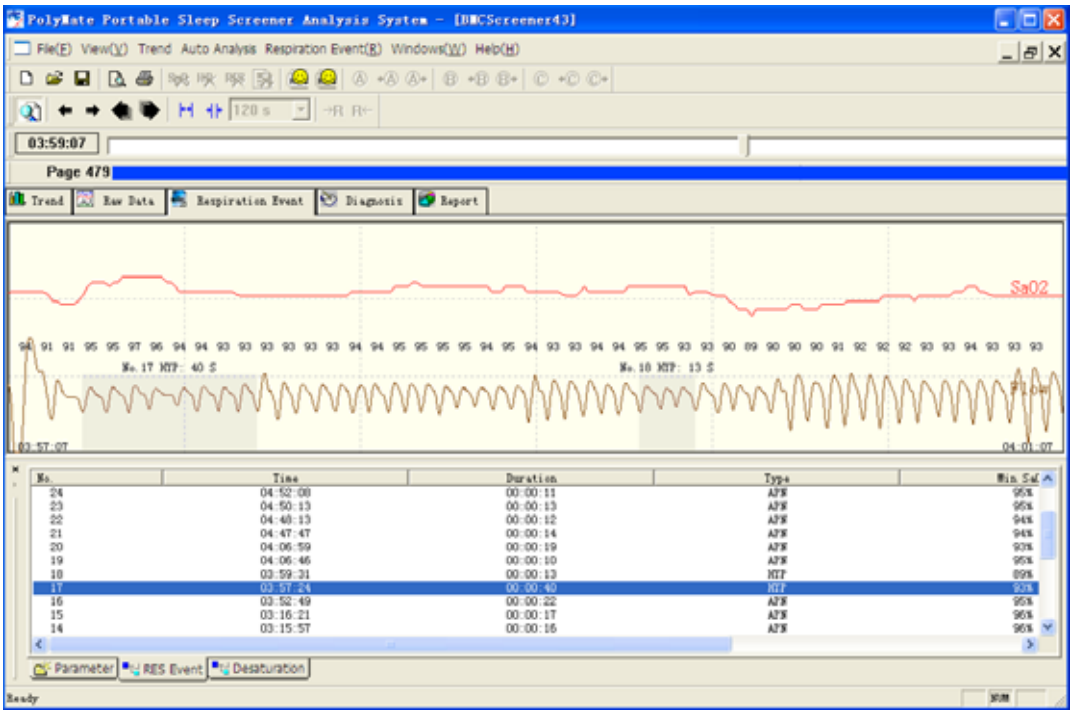


Figure 2-9 Respiration Event

Analysis form

All analysis results are produced into concise reports after statistical analysis. If the data recording has contained the CPAP pressure, a CPAP pressure report is also included.

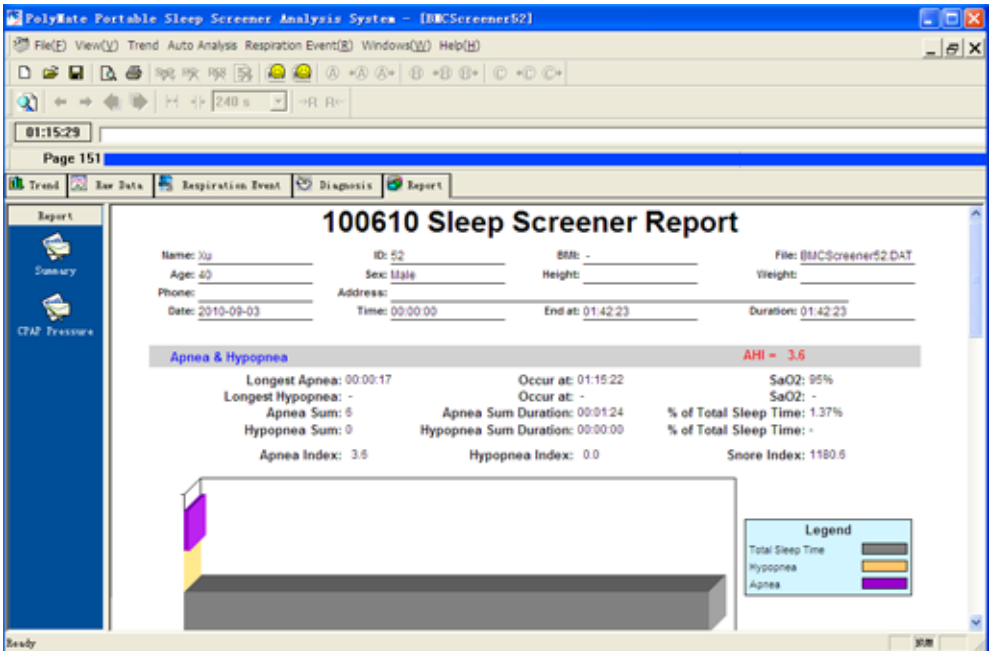


Figure 2-10 Analysis Report

Diagnosis result

The conditions and results of examination can be reached by selecting the corresponding items in the drop-down menu. Both English and Chinese can be inputted in the suggestion field. All the above reports can be printed out.

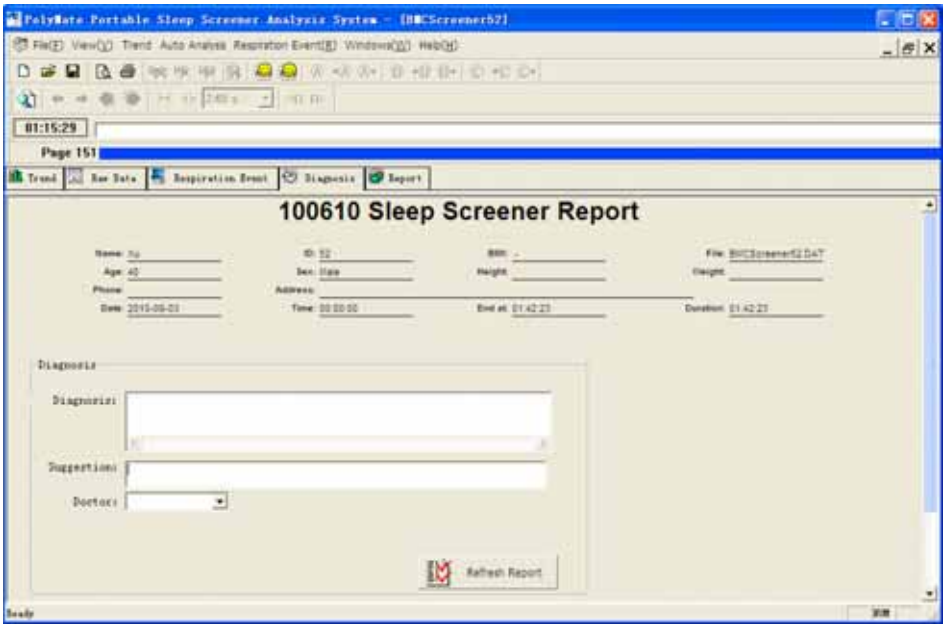


Figure 2-11 Diagnosis Result

Print preview and output

When the waveform is in need of printing, the waveform page should be activated to display. Press button or click on preview from the File menu under this page to preview the present waveforms.

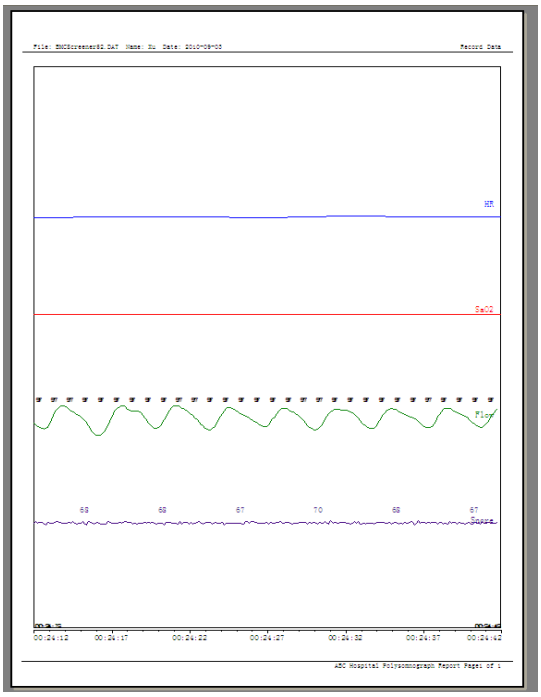
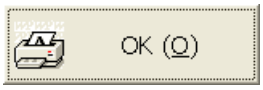


Figure 2-12 Print and Preview of the Raw Data Waveform

In other pages, pressing button or clicking on preview from the File menu may generate a window for preview options. Select the intended report and press 

button, the preview of report will be shown on the screen.

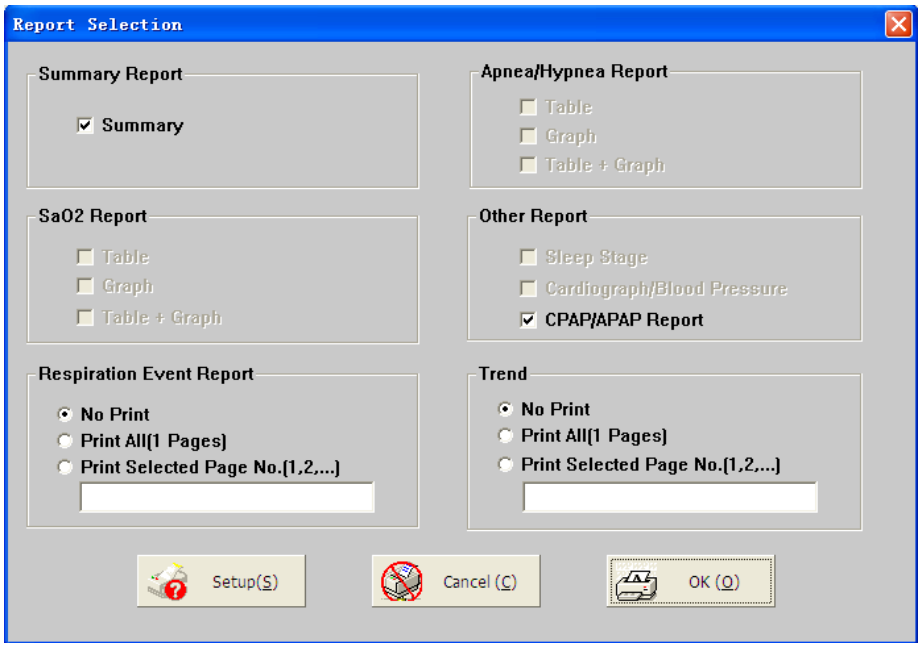
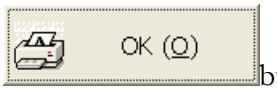


Figure 2-13 Print and Preview of the Report

Similarly, selecting button in the toolbar, or Print from File menu will show up the window for preview options. The print work will be done after you select your intended reports and press 

button. Click

to change the printer settings.

Exit program

To back to Windows desktop just click File in the menu and click Exit or at the top right corner.

USB Driver as an Essential Support

This driver is required to be installed only when the software is intended to replay and analyze the recorded data of the SleepCare device.

1. Make sure that the PC USB port works well.

2. Plug the USB data cable in the USB socket. System will detect it and the "Found New Hardware Wizard" appears to set the new device. Otherwise, follow step 8 to manually install the driver.

3. Insert the accompanying CD to the CD-ROM driver, and click "USB driver installation". When the system asks you whether or not to connect to the internet for windows update, select "No, not for the moment", and click "Next". Select "Install from a list or specific location (Advanced)" and then click "Next".

4. Set the options according to figure 3-1 in the search and installation options page. Tick "search removable media (floppy, CD-ROM…)" and Click "Next".

5. The wizard continues with the installation after finding the driver.

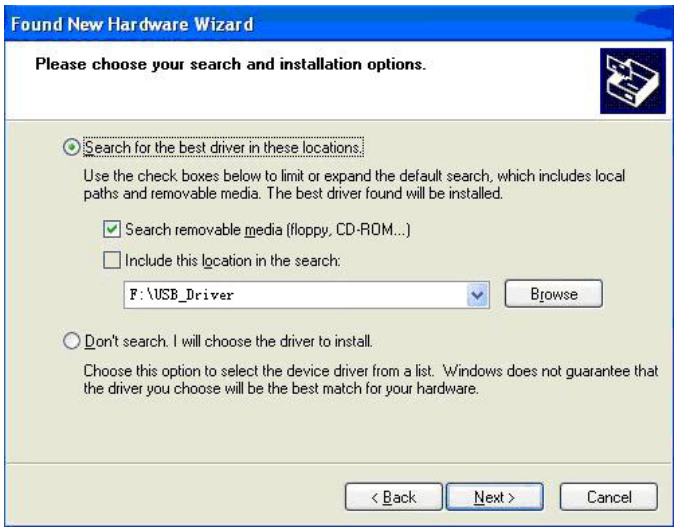

Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
F:\USB_Driver
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

Figure 3-1 Found New Hardware Wizard

6. Press "Finish" to quit the driver installation interface after installation.

7. Right-click the shortcut "My Computer" on the desktop and enter the system properties interface, click "Device Manager" in the "hardware" page to check out whether the BMC USB Interface is seen under "USB Controller". If so, it is suggested that the USB driver for SleepCare has been set up successfully and it can work now.

8. If "? USB-Serial Controller" comes up in the device manager, the installation is supposed not to be done or not correct and need to add the driver again.

9. Right-click "? BMC USB Interface". Select "Update Driver". Follow step 3 to install driver under the direction of the hardware update wizard of the pop-up window.

Service

Technical Support

For technical support and before returning any equipment, call BMC MEDICAL CO., LTD. at 86-10-51663880.

Limited Warranty

BMC MEDICAL CO., LTD. warrants that the SleepCare shall be free from defects of workmanship and materials and will perform in accordance with the product specifications for a period of one year from the date of delivery. During the warranty period, BMC MEDICAL CO., LTD. will correct any defects in material or workmanship to conform to specifications, free of charge. BMC MEDICAL CO., LTD. reserves the right to replace the SleepCare with a comparable unit. Shipping costs are the responsibility of the purchaser. This warranty does not cover damage caused by accident, misuse, abuse, alteration and other defects not related to material or workmanship.

BMC MEDICAL CO., LTD. disclaims all liability for economic loss, loss of profits, overhead, or consequential damages which may be claimed to arise from any sale or use of this product.

To exercise your rights under this warranty, contact your local, authorized dealers or:

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